Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_

**AP Biology: Unit 2, DBA #1 Review**

Ms. OK, 2014-2015

**Objectives Assessed:** Topic 1 (Macroevolution and Speciation), Learning Targets A-D

***Practice Questions:*** *Answer the following questions thoroughly and accurately in preparation for your Daily Biology Assessment.*

1) Define speciation.

2) How can you determine if two organisms are members of the same species?

3) What is the difference between pre-zygotic and post-zygotic “isolating mechanisms” / barriers that cause speciation?

4) Identify each of the following “isolating mechanisms” as pre-zygotic or post-zygotic and provide a brief, one-phrase description of each.

|  |  |  |
| --- | --- | --- |
| **Isolating Mechanism** | **Pre-zygotic or post-zygotic? (just write “Pre” or “Post”)** | **Description** |
| Reduced Hybrid Fertility |  |  |
| Gametic Isolation |  |  |
| Mechanical Isolation |  |  |
| Reduced Hybrid Viability |  |  |
| Behavioral Isolation |  |  |
| Hybrid Breakdown |  |  |
| Temporal Isolation |  |  |
| Habitat Isolation |  |  |

5) What is adaptive radiation and when is it most likely to occur… when there are many new niches (roles in the environment that species can fill) or when the number of niches is reduced?